PTO/SB/05 (06-03) Approved for use through 07/31/2003. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	A VAINO CIVID CONTROL TIGHTOCA.	
First Inventor	GEORGE J. MIAO	
Title	MEMO-Based Muttiuser ofom For Ultra Wideband Communical	Yutiband
Express Mail Label No.	ER 237057423 US)

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450		
2. Submit and Applicant Applicant See 37 C Specifical (preferred - Descripti - Cross Re - Statemer - Referenc or a comp - Backgrou - Brief Des - Detailed		7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Reader Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies		
- Claim(s)	of the Diselector	ACCOMPANYING APPLICATION PARTS		
- Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets		9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other:		
oo, is considered a p	part of the disclosure of the accompanying continuation.	or divisional application and is bereby incorporated by reference		
The incorporation <u>ca</u>	an only be relied upon when a portion has been inadvert 19. CORRESPOND			
Customer		OR Correspondence address below		
Name	CEOOCE T WE			
	GEORGE J. MI			
Address	2 INVERNESS	DRIVE		
City	MARLBORO	State NJ Zip Code 07746		
Country		ephone 732-462-7447 Fax		
Name (Print/Type) GEORGE J. MIAO Registration No. (Attorney/Agent)				
Signature	Gered fram Am	Date 08/31/2003		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (05-03)
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

121	375
101	0,0

Complete if Known		
Application Number		
Filing Date		
First Named Inventor	George J. Miao	
Examiner Name		
Art Unit		
Attorney Docket No.		

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
Check Credit card Money Other None	ADDITIONAL FEES			
Deposit Account:	ge Entity Small Entity			
Deposit Account	e Fee Fee Fee ode (\$)	Fee Description Fee Paid		
Number		ge - late filing fee or oath		
Deposit Account	52 50 2052 25 Surchar cover sh	ge - late provisional filing fee or		
Name The Director is authorized to: (check all that apply)		glish specification		
Charge fee(s) indicated below Credit any overpayments	12 2,520 1812 2,520 For filing	a request for ex parte reexamination		
Charge any additional fee(s) during the pendency of this application		ting publication of SIR prior to		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		ting publication of SIR after		
FEE CALCULATION	51 110 2251 55 Extension	on for reply within first month		
1. BASIC FILING FEE	52 410 2252 205 Extensi	on for reply within second month		
Large Entity Small Entity	53 930 2253 465 Extensi	on for reply within third month		
Fee Fee Fee Fee Paid Code (\$) Code (\$)	54 1,450 2254 725 Extensi	on for reply within fourth month		
1001 750 2001 375 Hillity filing for	55 1,970 2255 985 Extensi	on for reply within fifth month		
1002 330 2002 165 Design filling fee 375	01 320 2401 160 Notice of	of Appeal		
1003 520 2003 260 Plant filing fee	02 320 2402 160 Filing a	brief in support of an appeal		
1004 750 2004 375 Reissue filing fee	03 280 2403 140 Reques	t for oral hearing		
1005 160 2005 80 Provisional filing fee	51 1,510 1451 1,510 Petition	to institute a public use proceeding		
SUBTOTAL (1) (\$) 375	52 110 2452 55 Petition	to revive - unavoidable		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		to revive - unintentional		
Fee from		sue fee (or reissue)		
Total Claims 20 -20** = 0 X 9 = 0	02 470 2502 235 Design			
Independent 3 - 3** = 0 x 42 = 0	03 630 2503 315 Plant is:			
Multiple Dependent		s to the Commissioner		
Large Entity Small Entity		sing fee under 37 CFR 1.17(q)		
Fee Fee Fee Fee Description		sion of Information Disclosure Stmt		
Code (\$)	21 40 8021 40 Recordii property	ng each patent assignment per (times number of properties)		
1201 84 2201 42 Independent claims in excess of 3		submission after final rejection R 1.129(a))		
1203 280 2203 140 Multiple dependent claim, if not paid		h additional invention to be		
1204 84 2204 42 ** Reissue independent claims over original patent		ed (37 CFR 1.129(b))		
1205 18 2205 9 ** Reissue claims in excess of 20		st for Continued Examination (RCE)		
and over original patent		st for expedited examination sign application		
SUBTOTAL (2) (\$) ⁰	Other fee (specify)			
**or number previously paid, if greater; For Reissues, see above	educed by Basic Filing Fee Paid	SUBTOTAL (3) (\$)		

SUBMITTED BY

Name (Print/Type)

George J. Miao

Registration No. (Altomet/Agent)

Signature

(Complete (if applicable)

Telephone 732-462-7447

Date 08/31/2003

WARNING: Information n this f rm may b c m public. Credit card information sh uld n t b included n this f rm. Pr vide credit card information and auth rization on PTO-2038.

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

		GEORGE J. MIAO	
Title	MIMO-BO For Ultr	sed Mulliuser OFDM Mulli a Wideband Communicati	band ons
	ney Docket Numbe		

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

08/31/2003 Date

732-462-7447 GEORGE J. MIAO

lephone number Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.